

1/20 FIG. 1A

FIG. IA		
SEQ ID NO: 1 Mtub294752	mlrlvvgalllvlafaggyavaacktvtltvdgtamrv:tmksrvidive	50
Mtub294752	engfsvddrddlypaagvqvhdadtivlrrsrplqisldghdc\qvwtta	100
MtubZ94752	stvdealaqlamtdtapaaasrasrvplsgmalpvvsaktvqlndgglvr	ን ጉህ
SEQ ID NO: 2 MtubMTV008	tvhlpapnvagllsaagvpllqsdhvvpaatapivegmqiqvtrnrikkvmpvgwlwrartakgttlknarttliaaaiagt	200 32
SEQ ID NO: 3 Mlepl04666	msesyrkl	8
SEQ ID NO: 4 MtubMTV043	msgrhrkpt	9
Mtub294752	terlplppnarrvedpemnmsrevvedpgvpgtqdvtfavaevngvetgr	250
SEQ ID NO: 36 Mlut296935	mtlfttsat	9
SEO ID NO: 5 MlepL01095	mpgemldvrklc	12
SEQ ID NO: 6 MtubU38939	mhplpadhgrsrcnrhpisplslignisatsgdmssmt	38
SEGIID NO: 7 Mtub281368/		19
## MtubMTV008	<u>lvttspagiana</u> ddagldpnaaagpdavgfdpnlppapdaapvdtppape	82
6 1	·	
SEO ID NO: 8 Scoeli6C12\$	<u>irtaavtlvaatalgatgeava</u> apsaplrtDWDAIAACESSGNWQAN	25
Mlep104666	ttssiivakitftgamldgsialagqaspatdsEWDQVARCESGGNWSIN	58
mtubmTV043	tsnvsvakiaftgavlggggiamaaqataatdgEWDQVARCESGGNWSIN	59
MtubZ94752	lpvanvvvtpaheavvrvgtkpgtevppvidgsIWDAIAGCEAGGNWAIN	300
Mlutz96935	rsrratasivagmtlagaaavgfsapagaatvdTWDRLAECESNGTWDIN	59
MlepL01095	klfvksavvsgivtasmalststgmanavprePNWDAVAQCESGRNWRAN	62
MtubU38939	riakpliksamaaglvtasmslstavahagpsPNWDAVAQCESGGNWAAN	88
MtubU38939 MtubZ81368 MtubMTV008	rivctvfietavvatmfvallglstisskaddIDWDAIAQCESGGNWAAN	69
MtubMTV008	dagfdpnlppplapdflsppaeeappvpvaysVNWDAIAQCESGGNWSIN	132
1225	***	•
Scoeli6C12\$	TGNGYYGGLQFARSSWIAAGGLKYAPRADLATRGEQIAVAERLARLQGMS	75
Mlep104666	TGNGYLGGLQFSQGTWASHGGGEYAPSAQLATREQQIAVAERVLATQGSG	108
MtubMTV043	TGNGYLGGLQFTQSTWAAHGGGEFAPSAQLASREQQIAVGERVLATQGRG	109
Mtub294752	TGNGYYGGVQFDQGTWEANGGLRYAPRADLATREEQIAVAEVTRLRQGWG	350
Mlut296935	TGNGFYGGVQFTLSSWQAVGGEGYPHQASKAEQIKRAEILQDLQGWG	106
MlepL01095	TGNGFYGGLQFKPTIWARYGGVGNPAGASREQQITVANRVLADQGLD	109 135
MtubU38939	TGNGKYGGLQFKPATWAAFGGVGNPAAASREQQIAVANRVLAEQGLD	116
MtubZ81368	TGNGLYGGLQISQATWDSNGGVGSPAAASPQQQIEVADNIMKTQGPG	179
MtubMTV008	TGNGYYGGLEFTAGTWRANGGSGSAANASREEQIRVAENVLRSQGIR	113
		78
Scoeli6C12\$	AW	152
Mlep104666	AWPACGHGLSGPSLQEVLPAGMGAPWINGAPAPLAPPPPAEPAP	152
MtubMTV043	AWPVCGRGLSNATPREVLPASaaMDAPldaaaVNGEPAPLA-PPPADPAP	362
Mtub294752	AWPVCAaragarAWPLCSQKLgltqadadagdvdateaapvavertatvqrqsaadeaaaeq	
M1ut296935	AWPLCSQKLgltqadadagdvdateaapvavertatvqrqsaadeaaaeq AWPKCGAASDLPITLWSHPAQGVKQIINDIIqmgdttlaaialngl	
MlepL01095	AWPTCGAASGLPIALWSKPAQGIKQIINEIIwagigasipr	
MtubU38939 MtubZ81368	AWPKCSscsqqdaplqslthiltflaaetqqcsqsrdd	- I
MtubMTV008	AHPVCGrrg	188
MCGDM1 4000	*** *.	



FIG. 1A (CONT.)

Mlepl04666 MtubMTV043 MlutZ96935	pqppadnfpptpgDVPSPLarppvelaandlpaplgeplpaapadpappadlaPPAPADVAPPVelavndlpaaaaeqavvaeaetivvksgdslwtlaneyeveggwtalyeankgavsda	174 208 206
MtubMTV043 MlutZ96935	aplgeplpaapadpappadlappapadlappapadlappvelaviyvgqelvlpqa	258 220
MtubMTV043	avndlpaplgeplpaapaelappadlapasadlappapadlappapaela	308
MtubMTV043	ppapadlappaavneqtapgdqpatapggpvglatdlelpepdpqpadap	358
MtubMTV043	ppgdvteapaetpqvsniaytkklwqairaqdvcgndaldslaqpyvig-	407

82 39	11 163 121 58	93 244 205	326 282 220	362 256 406 286 49		09,
mgeregrvdslldtlynlseekeaffitgkmkklfsvklsKSKVILVRACLLLAGSGTAYAAHELTKQSVSVSINGKKKHIR	THANTVGDLLETLDIKTRDEDKITPAKQTKITADMDVVYEAAKPVKLTING-EEKTLMSTAKTVGALLDEQDVDVKEQDQID THANTVGDLLETLDIKTRDEDLYPAAGVQVHDADTIVLRRSRPLQISLDGHDAKQVWTTASTVDEALAQLAMTDTAPAAAS TMKSRVIDIVEENGFSVDDRDDLYPAAGVQVHDADTIVLRRSRPLQISLDGHDAKQVWTTASTVDEALAQLAMTDTAPAAAS	aalsttafgahasakeitvqkgdtlwgisqkngvnlkdlkewnkltsdkiiagekltisseetttggytikagdtlskiag aalsttafgahasakeitvqkgdtlwgisqkngvnlkdlkewnkltsdkrikpedkrtrgrad-ititriekvtd paidtdiskdmkiniepafQvTvNDAGKQKKIWTTSTTVADFLKQQKMNIKDEDKIKPALDAKLTKGKAD-ITITRIEKVTD RASRVPLSG-MALPVVSAKTVQLNDGGLVTVHLDAPNVAGLLSAAGVPLLQSDHVVPAATAPIVEGMQIQVTRNRIKKVTE PALDTNLKNGDKIYIKKAISVEVAVDGKVRRVKSSEETVSKMLKAEKIPLSKVDKVNISRNAAIKKNMKISITRVNSQIT # # # # * * * * * * * * * * * * * * * *	kfgttvnnlkvwnnlssdmiyagstlsvkggataantatenagtnapgaapkgeavgkegpkgeavgygyryg. kfgttvnnlkvwnnlssdmiyagstlsvkgkegKLKKHFEVVKENGKEVSRELVKEETAEGSKDKVIAVGTKQSSPKFETVSA vveekiafdvkkQedasleKGKEKVVQKGKEGKLKKHFEVVKENGKEVSRELVKEETARGSSPKTRTVSDG RLPLPPNARRVEDPEMNMSREVVEDPGVPGTQDVTFAVAEVNGVETGRLPVANVVVTPAHEAVVRUGTKPGTEVPPVIDG KENQQVDFPTEVISDDSMGNDEKQVIQQGQAGEKEVFTKIVYEDGKAVSKEIVGEVIKKEPTKQVFKVGTlgvlkpdrggrv # # # # # # # * * *	Siwdaiagceaggnwaintgngyyggvqfdqgtweangglryapradlatreeqiavaevtrlrggwgawpvcaaragar NTEEKAVQSNTNNQEASKELTVTATAYTANDGGISGVTATGIDLNKNPNA-KVIAVDPNVIPLGSKVYVEGYGEATTAADTG SGDSKTVVSRSNE-STGKVMTVSSTAYTASCSGCSGHTATGVNLKNNPNA-KVIAVDPNVIPLGSKVHVEGYGYAIIAADTGLYKKSLQVLATAYTDDFSFGITASGTKVKRDSDGYSSIAVDPTVIPLGTKLYVPGYGYAIIAADTGAEAYTASGMHVLRDPNGYSTIAVDPSVIPLGTKLYVEGYGYAIIAADTG	GAIKGNKIDVFVPEKSSAYRWGNKTVKIKILN 288 SAIKGNKIDVFFPSKSDASNWGVKTVSVKULN 438 GAIKGNRLDLFFTSERECYDWGAKNVTVXILK 318 GAIKGNRVDLFFNTEAEASNWGVRNLDVYILN 81 ************************************	
YabEBsubt	Mtub294752 YocHBsubt YabEBsubt Mtub294752	Caceto506 yocHBsubt YabEBsubt Mtub294752 Caceto506	yocilBsubt YabEBsubt Mtub294752 Caceto506	Mtub294752 yocHBsubt YabEBsubt Caceto506 Cperfring	YochBsubt YabEBsubt Caceto506 Cperfring	
SEQ ID NO:9 A	ID NO: 1	SEQ ID NO: 11 A A A A A A A A A A A A A A A A A A	4444	SEQ ID NO: 12 B	AI.	<u>り</u> 」



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F14.1C

TIVVKSG	1
TIKVKSG	TIKVKSGDSLWKLSRQ-YUTTISALKSENKLKSTVLXVGQSLKVPES
TIKVKSG	TIKVKSGDSLWKLAQT-YNTSVAALTSANIILSTTVLSIGQTLTIP
TYTVKSG	TYTVKSGDSLWVIAQK-FNVTAQQIREKNNLKTDVLQVGQKLVI
KYTVKSG	KYTVKSGDSLWKIANN-INLTVQQIRNINNLKSDVLYVGQVLKL
TYTVKSG	TYTVKSGDTIWALSSK-YGTSVQNIMSWNNLSSSSIYVGQVLAVKQ-
THAVKSG	THAVKSGDTIWALSVK-YGVSVQDIMSWNNLSSSSIYVGQKLAIKQ-
SVKVKSG	SVKVKSGDTLWALSVK-YKTSIAQLKSWNHLSSDTIYIGQNLIVSQS
TYTVKSG	TYTVKSGDTLWGISQR-YGISVAQIQSANNLKSTIIYIGQKLLL
TYTVKKG	TYTVKKGDTLWDIAGRFYGNSTQWRKIWNANKTAMIKRSKRNIRQPGHWIFPGQKLKIPQ-
TYTVKKG	TYTVKKGDTLMDLAGKFYGDSTKWRKIWKVNKKAMIKRSKRNIRQPGHWIFPGQKLKIPQ-
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SEQ ID NO: 4 1 msgrhrkpttsnvsvakiaftgavlggggiamaaqataatdgewdqvarcesggnwsintgngylgg lqftqstwaahgggefapsaqlasreqqiavgervlatqgrgawpvcgrglsnatprevlpasaamd apldaaavngepaplapppadp 156

157 appvelaandlpaplgeplpaapadpappadlappapadv 196

197 appvelavndlpaplgeplpaapadpappadlappapadlappapadlappapadl 252

253 appvelavndlpaplgeplpaapaelappadlap-asadlappapadlappapaelappapadlappa

320 ----avne 323

324 qtapgdqpatapggpvglatdlelpepdpqpadapppgdvteapaetpqvsniaytkklwqaira

389 qdvcgndaldslaqpyvig* 407

Motif	sequence
A B' C D A	157 appvelaandl 167 SEQ ID NO: 25 168 paplgeplpaapad 181 SEQ ID NO: 28 182 pappadl 188 SEQ ID NO: 29 189 appapadv 196 SEQ ID NO: 31
D D D	197 appvelavndl 207 SEQ ID NO: 26 208 paplgeplpaapad 221 SEQ ID NO: 28 222 pappadl 228 SEQ ID NO: 29 229 appapadl 236 SEQ ID NO: 30 237 appapadl 244 SEQ ID NO: 30 245 appapadl 252 SEQ ID NO: 30
A B C D* D D D D D D D D D D D D D D D D D	253 appvelavndl 263 SEQ ID NO: 26 264 paplgeplpaapael 278 SEQ ID NO: 27 279 appadl 284 SEQ ID NO: 55 285 apasadl 291 SEQ ID NO: 56 292 appapadl 299 SEQ ID NO: 30 300 appapael 307 SEQ ID NO: 57 308 appapadl 315 SEQ ID NO: 30 316 appa 319 SEQ ID NO: 58
'A'	320 avne 323 SEQ ID NO: 59

A = appvela[av]ndl |

B = paplgeplpaapa[de]1

F14.1D

C = pappadl

D = appapa[de][lv]



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SEQ ID NO:34 Lmonocytog SEQ ID NO: 36 Mlutfactor	Lmonocytog Mlutfactor	Lmonocytog Mlutfactor	Lmonocytog Mlutfactor	Lmonocytog MlutFactor	Lmonocytog MlutFactor	Lmonocytog Mlutfactor	



SEQ ID NO:	35 1	acca	agga	agaa	ıgga	cga	ccc	cg	gtgt	gc	ctc	ggc	cgc	cga [.]	tca	goga	ıgga	ctc	gcc	atg	g	60
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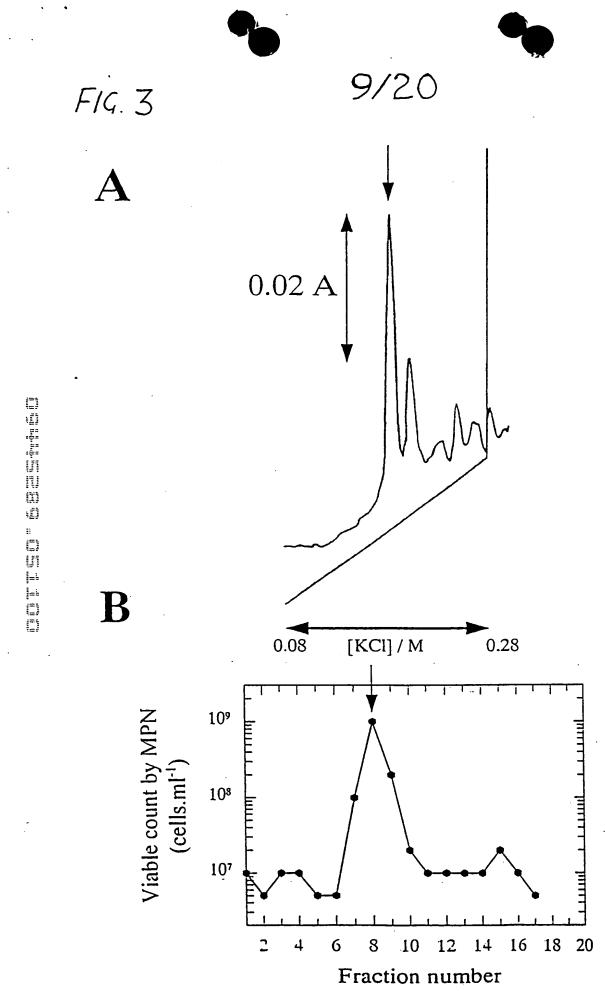
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SEQ	ID	NO:	44	ggat	.ccg	cac	cgc	cgc	ggt	aac	cct	ggt	cgc	cgc	gac	cgc	act	cgg	ggc	gac	cgg	cga	ag	60
SEQ	ID	NO:	45	I	R	T	A	A	V	T	L	V	A	A	T	A	L	G	A	T		E		
				cggt	ggc	cgc	gcc	cto	ggc	gcc	cct	gcg	cac	cga	ctg	gga	.cgc	cat	.cgc	cgc	gtg	cga	gt	120
				V	A	A	P	S	A	P	L	R	T	D	W		A							-
				cca	acaa	caa	acto	ggca	aggo	gaa	cac	cgg	caa	cgg	icta	cta	cgg	cgg	rcct	.gca	gtt	cgo	ac	180
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		ggtccagctggatcgccgccggcgcctcaagtacgccccgcgcgcg													cc	240								
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																	Q							

F14. 2B

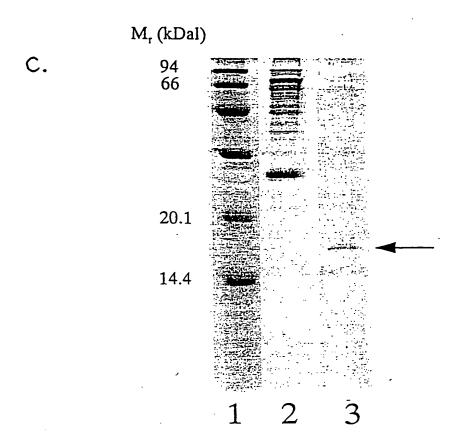






F14.3

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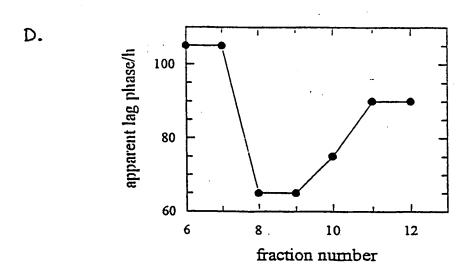
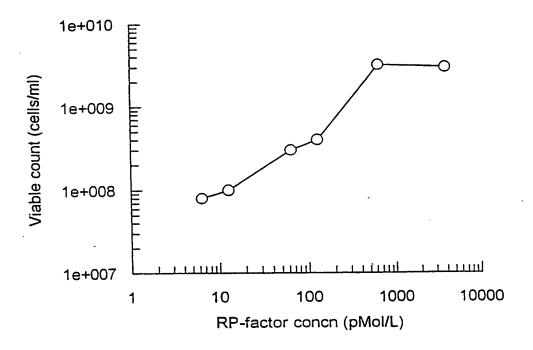






FIG. 4

A



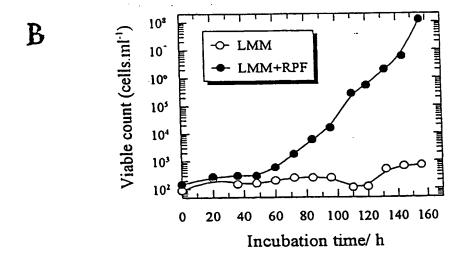
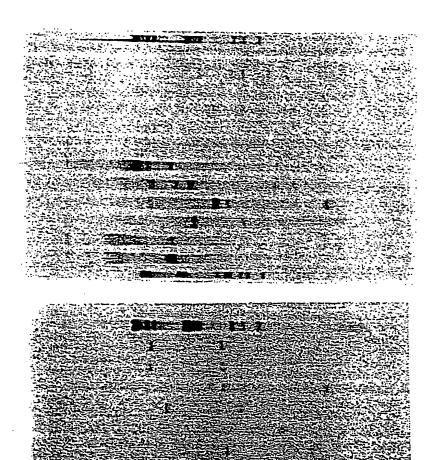




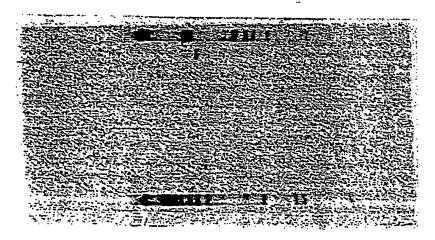


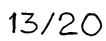
FIG.5

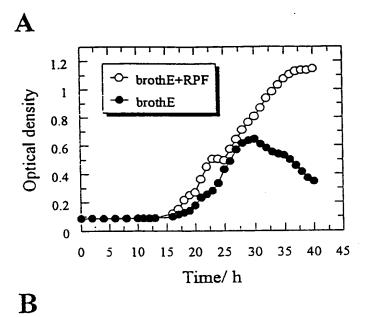
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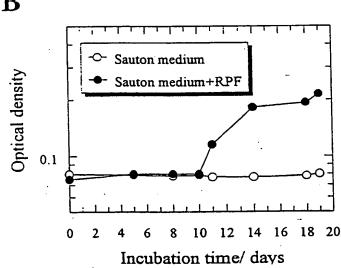


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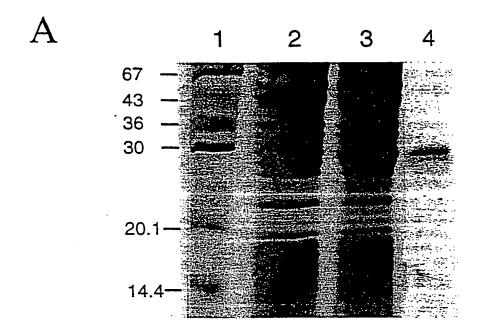
F14.6

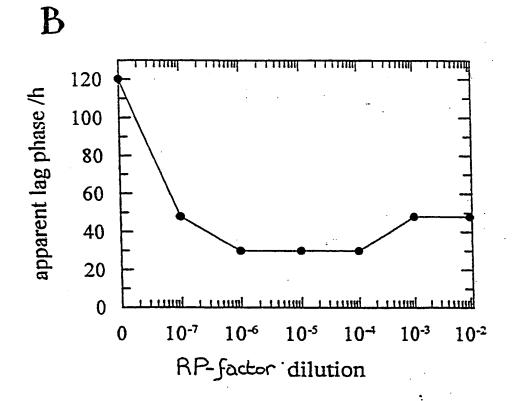




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FIG. 7









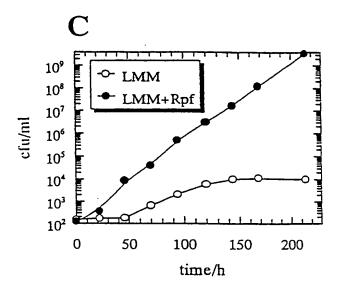


FIG. 7

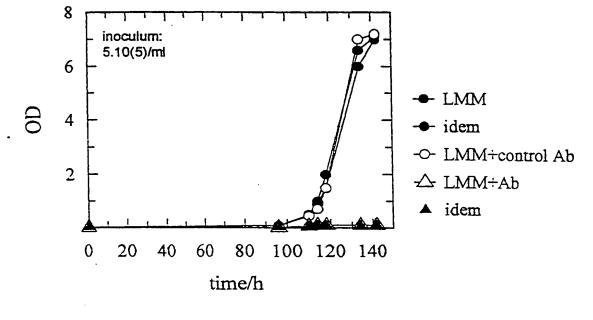


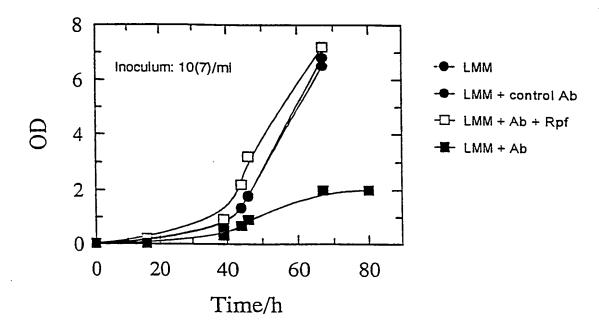
FIG. 8A





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F19.8 B

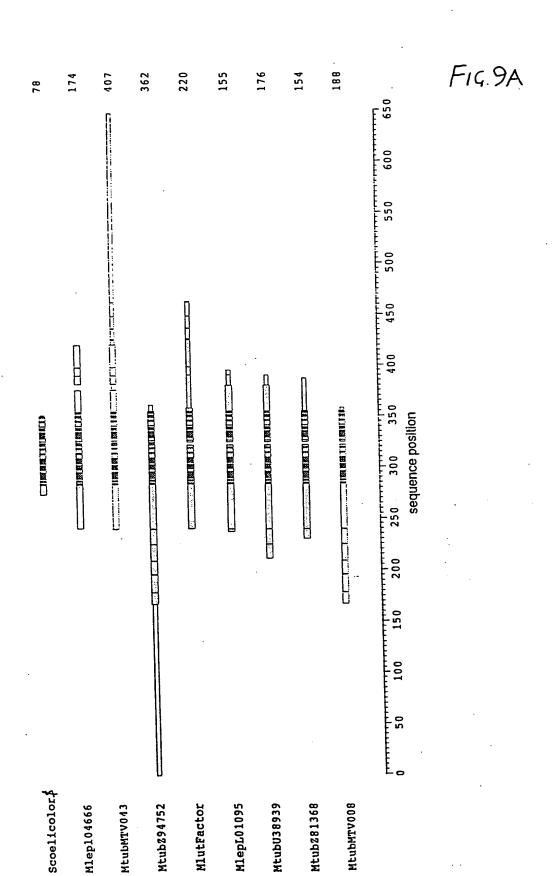






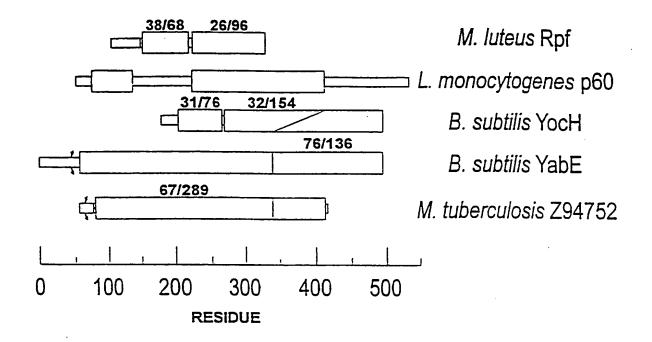


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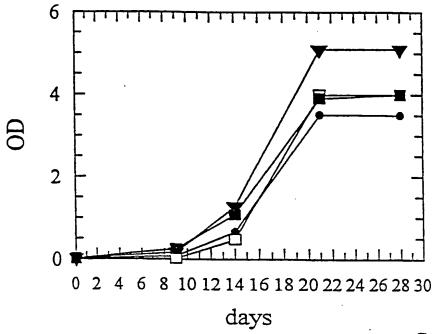




F19. 9B







F19.10

Control

▼ Rpf (1:10000)

-□- Rpf2 (1:10000)

■ Rpf2 (1:100000)